TIP: many of these problems act in GMAT zone, so beware of ZIP trap.

1. The sum of n consecutive positive integers is 45. What is the value of n?
(1) n is even
(2) n < 9

2. Is a product of three integers XYZ a prime?
(1) X=-Y
(2) Z=1

3. Multiplication of the two digit numbers wx and cx, where w,x and c are unique non-zero digits, the product is a three digit number. What is w+c-x?
(1) The three digits of the product are all the same and different from w c and x.
(2) x and w+c are odd numbers.

4. Is y – x positive?
(1) y > 0
(2) x = 1 – y

5. If a and b are integers, and a not= b, is $|a|b > 0$?
(1) $|a^b| > 0$
(2) $|a|^b$ is a non-zero integer

6. If M and N are integers, is $(10^M + N)/3$ an integer?
1. N = 5
2. MN is even

7. If b, c, and d are constants and $x^2 + bx + c = (x + d)^2$ for all values of x, what is the value of c?
(1) d = 3
(2) b = 6

8. If x and y are non-zero integers and $|x| + |y| = 32$, what is xy?
(1) -4x - 12y = 0
(2) $|x| - |y| = 16$

9. Is the integer n odd
(1) n is divisible by 3
(2) 2n is divisible by twice as many positive integers as n

10. The sum of n consecutive positive integers is 45. What is the value of n?
(1) n is odd
(2) n >= 9